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American Journal of Laboratory Medicine

2017; 2(4): 60-68

http://www.sciencepublishinggroup.com/j/ajlm

doi: 10.11648/j.ajlm.20170204.14

ISSN: 2575-3878 (Print); ISSN: 2575-386X (Online)

Haematological Parameters in Pregnant Women Attended Antenatal Care at Sabratha Teaching Hospital in Northwest, Libya

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Abstract: The aim of this study was to evaluate the values of hematological parameters at different trimesters of pregnancy in pregnant women who attended antenatal care at Sabratha Teaching Hospital, Northwest Libya. This cross-sectional survey included consecutive pregnant women who attended the obstetrical department in Sabratha Teaching Hospital for prenatal booking. This study was carried out over period of 6 month from April 2016 to September 2016. The study involved 120 pregnant women as the study group and 40 non-pregnant women as control. The study pregnant women were between the ages of 18 to 45 years. 5 ml of venous blood samples were taken from each pregnant woman in K_3-EDTA tubes for the haematological examinations. The analysis of haematological indices was done using automated hematological analyzer. The obtained results showed that the mean age of pregnant women was 30 years ± 5.8 SD, 48.4% of pregnant women were between 21-30 years old, 40.8% were at age between 31-40 years. The most prevalent blood group in pregnant women was group O, 47.5%; followed by blood group A, 28.3%; blood group B, 17.5% and blood group AB, 6.7%. 15.8% of the pregnant women were observed to lack Rh antigen in their blood. Highly significance decrease in Hb, Hct, MCH, MCHC, lymphocytes%, RBCs and blood platelets count and significant decrease in MCV as compared with non pregnant women. On the other hand, highly significance increased in WBCs count, and neutrophils % of pregnant women compared with non pregnant women. A progressive decline in Hb concentration and haematocrite values from the first to third trimester was observed. The mean corpuscular volume was significantly decreased in the second trimester. The values of MCH showed highly significant decrease in the second and third trimester, and MCHC decreased significantly in the first trimester. WBC count and neutrophils % showed highly significant increase from the first to the third trimester. Lymphocytes % were highly significant decreased from the first to the third trimester. Mixed percentage of leukocytes (eosinophil, basophil and monocytes) decreased significantly in the third trimester. Platelets count exhibited a highly significant decrease in the second and third trimesters, and a significantly decrease in the first trimester. It can be concluded that a significant changes in the haematological parameters at different trimesters of pregnancy in pregnant women. So it is essential to monitor and manage these parameters during pregnancy.

Keywords: Haematological Changes, Pregnant Women, Trimesters of Pregnancy, Blood Groups

1. Introduction

Pregnancy is the time during which one or more offspring develops inside a woman's womb. In a pregnancy, there can be multiple gestations, as in the case of twins or triplets. Childbirth usually occurs approximately 38 weeks after conception. In case of women who have a menstrual cycle length of 4 weeks, this is approximately 40 weeks from the last normal menstrual [1]. Pregnancy is influenced by many factors, some of

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- Volumen sanguíneo: 96 ml x kg. En embarazo único normal.
- Aumento de masa eritrocitaria
- Reducción de hemoglobina-anemia dilucional.
- Disminución de la resistencia vascular.
- T. Ritmo.-extrasístoles ventriculares así como un soplo funcional y refuerzo del segundo ruido
- EKC.- inversión de onda t, así como una S grande en DIII

Modificaciones Fisiológicas cardiovasculares del embarazo

ESTROGENOS   PGI 2   PROGEST.

Mayor Volemia   Mayor flujo Uterino   Menor R.P.
                 Mayor flujo S. Renal
                 Mayor cambios Cardiov...   Menor R.V.

Mayor del Vol Sang. Total   Plasmático
                             Globular: Menor Hto.

Dilución Acuosa

Anemia Fisiológica Dilucional
               ↑ Contract.
Mayor precarga → ↑ F.C. > Gasto cardíaco < Menor Postcarga

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